REMARKS

1. The Amendments and the Support Therefor

No claims have been canceled, six new claims (71-76) have been added, and claims 1, 14, 27, and 40 have been amended to leave claims 1-5, 7-18, 20-31, 33-44, 46-52, and 67-76 in the application. A form PTO-2038 authorizing a charge for any newly-submitted claims in excess of the amount previously paid for should accompany this Response, as per 37 CFR §1.16(b)-(d), with the fee due being calculated as follows:

FEE CALCULATION					
For	Already Paid		No. Extra	Rate (SMALL ENTITY)	Fee (SMALL ENTITY)
Total Claims	58	- 52 =	6	x \$9 =	\$54
Independent Claims	6	-4=	2	x \$42 =	\$84
2-Mo. Extension	•				\$205
				Total:	\$343

FEE CALCULATION

No new matter has been added by the amendments or new claims, with the amendments merely further clarifying the previously-recited limitations (as discussed in Section 2 of this Response) and new claims 71-76 finding basis (for example) in claims 1, 7, and 9.

Sections 1-2 of the Office Action: Rejection of Claims 1-5, 8, 10-19, 21, 23-31, 34, 36-44, 47, 49-52, and 67-70 under 35 USC §103(a) in view of *Drobyshev et al* (Gene (1997) 188:45-52) and U.S. Patent 6,174,670 to Wittwer

The Examiner asserts that it would be prima facie obvious to one of skill in the art to employ the SYBR Green markers of Wittwer in the method of Drobyshev, and thereby obtain a method in accordance with the present claims. In particular, the Examiner asserts that the claimed "single DNA strand of a double stranded DNA of at least 40 base pairs containing the locus of a variation, bound to a solid surface" encompasses the gel immobilized 10-mer oligonucleotides of Drobyshev, alleging that:

(1) a polyacrylamide gel constitutes a "solid surface" as claimed (pages 8-9 of the Office Action);